



## SEQUENCE LISTING

<110> Carlin, Nils  
Lebens, Michael R.

<110> METHOD OF PRODUCING THY A-DEFICIENT STRAINS OF VIBRIO CHOLERAE, SUCH  
STRAINS AND THEIR USE

<130> CARL3004/JDB

<140> US 09/700,712

<141> 1999-05-21

<150> PCT/EP99/03509

<151> 1999-05-21

<150> SE 9801852-6

<151> 1998-05-26

<160> 15

<170> PatentIn version 3.0

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<213> Vibrio cholerae

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Ile Arg Gly Tyr Asp Asn Ala Ala Asp Phe Arg Gln Leu Gly Thr Lys
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Thr Trp Asp Ala Asn Ala Asn Leu Asn Gln Ala Trp Leu Asn Asn Pro
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Gly Asn Phe Met Asn Ser Glu Leu Trp Gly Arg Val Thr Asp Val Pro  
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Trp Ala Phe Val Phe Pro Asn Gly Gly Pro Leu Pro Arg His Pro Ser  
165 170 175  
Gln Leu Tyr Glu Phe Ala Leu Glu Gly Val Val Leu Phe Phe Ile Leu  
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195 200 205  
Phe Leu Ala Gly Tyr Gly Thr Phe Arg Phe Leu Val Glu Tyr Val Arg  
210 215 220  
Glu Pro Asp Ala Gln Leu Gly Leu Phe Gly Gly Phe Ile Ser Met Gly  
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 Arg Cys His Leu Arg Ser Ile Ile His Glu Leu Leu Trp Phe Leu Gln  
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 Trp Arg Ala Trp Pro Thr Pro Asp Gly Arg His Ile Asp Gln Ile Thr  
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 Thr Val Leu Asn Gln Leu Lys Asn Asp Pro Asp Ser Arg Arg Ile Ile  
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